



- Uses latest type GaAIAs/ GaAs high efficiency diodes
- Maximum IR power output 8 watts
- Output IR power continuously adjustable from 20% to 100%
- Automatically activated by transmitter
- Visual indicators to verify correct operation
- Loop through connections with no practical limit to size of system
- Convection cooled (no fans required)
- Complies with IEC 764 and is compatible with other systems of this type

The new Auditel EP160 Infra-Red Radiator transmits up to 18 channels of audio for simultaneous interpretation or tour guide systems. It is manufactured in metal and has an adjustable swivel bracket.

The panel is mains powered and there are no user controls except for a variable output level control. The built-in DC power supply is automatically switched on when signals are received from the transmitter and indicators visible from the floor denote the standby and operating modes.

The panel is convection cooled for noiseless, reliable and maintenance free operation. The emitter diodes are

arranged in rows so that the failure of an individual diode does not affect the remainder of the panel and the output power is not reduced by more than 2.5%.

The radiator uses more efficient GaAIAs/GaAs diodes but it is fully compatible with earlier models, and with other systems conforming to IEC 764.

A single panel can cover up to 3000m<sup>2</sup> for one channel when used with Auditel type IRX-6/9/12 multi-channel receivers and type IRX-1/2H wide band receivers.

The radiators connect by a loop-through 50 ohm coaxial cable.

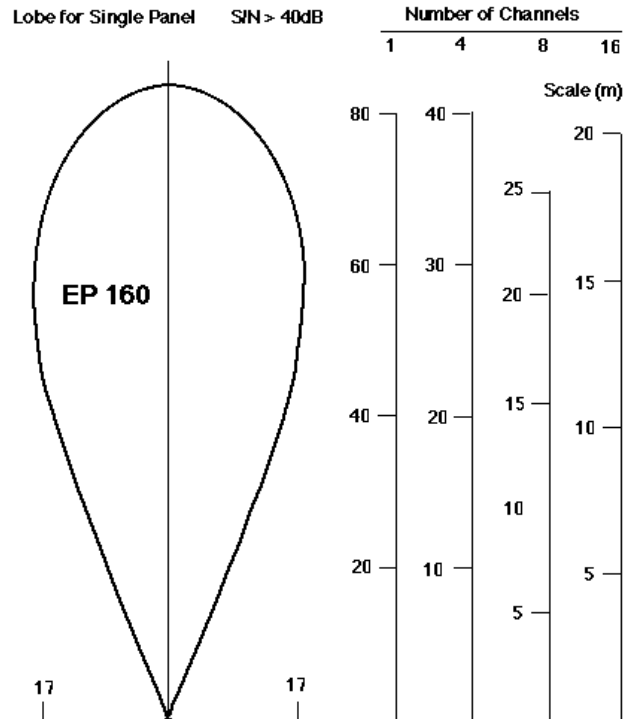
## Performance

The primary factor is the S/N at the receiver output which is specific to the particular radiator/receiver combination used. The Auditel receivers and the EP160 are capable of giving a S/N better than 55dB but in most cases 40dB is considered adequate. The mounting height and inclination of the panel affects the performance as does the reflectivity of the room but to a first approximation the coverage of a panel may be represented in the form of a lobe enclosing the volume within which a particular S/N ratio will be achieved. In multi radiator systems the coverage of a single panel is enhanced by overlapping footprints and reflections and the coverage which can be achieved in practice is close to the maximum possible for the radiator.

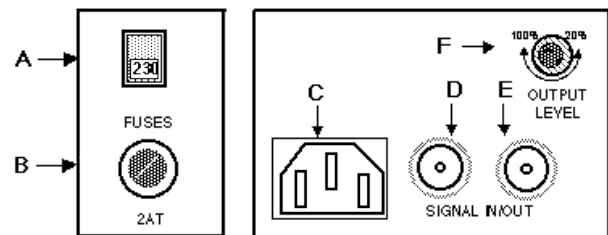
S/N	Max Coverage			Max Range		
	(m <sup>2</sup> )			(m)		
> 40 dB	Angle					
	0°	45°	90°	0°	45°	90°
No. of ch.						
4	730	385	270	42	22	16
8	365	195	135	30	16	11
12	245	130	90	24	13	9

## Technical Data

Frequency Range	40 - 780kHz
Number of Emitter Diodes	160
Angle of Half Intensity	±25°
Max. IR Output Power (watts)	8
Max. Coverage (single ch.) (m <sup>2</sup> )	3000
RF input voltage	30mV - 2.0V
Power Consumption (VA)	70
Power Supply (AC)	110-240V 50/60Hz
Permissible Ambient Temperature	10 - 40°C
Size ( H x W x D )	210x307x61mm
Weight (kg)	2.5
Complies with IEC 764 & IEC 914 standards	



## Controls



- A VOLTAGE SELECTOR
- B FUSE 2AT
- C 3-WAY CEE22/IEC320 (A/C)
- D/E CO-AXIAL BNC TYPE SOCKETS (SIGNAL)
- F OUTPUT LEVEL CONTROL (20%-100%)

## Architects and Engineers specification

The high power infra-red radiator panel shall have a frequency range of at least 40kHz-780kHz and shall be self powered and automatically activated by signals from the transmitter. It shall be convection cooled and have a rotary switch to vary the output level from 20% to 100% with a maximum IR power of 8 watts. The panel shall have 160 high efficiency GaAIAs/GaAs emitter diodes with an angle of half intensity ±25°

We reserve the right to vary the specification without notice in the interest of product improvement



conference and interpretation systems

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